

INFORMATION REPORT

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COUNTRY USSR (Sverdlovsk Oblast)

DATE DISTR. 25 March 1952

25X1 SUBJECT Verkhoturys Power Plant

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By: ☐SUPPLEMENT TO
REPORT NO.

25X1

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1. The retaining dam of the Verkhoturys ($60^{\circ}50'E/58^{\circ}51'N$), Sverdlovsk Oblast, power plant is on the Tura River, about 2.8 km southwest of the town and 4.8 km east of the railroad bridge crossing the river.
2. Plant layout: Construction work was started in 1940, but interrupted by the war (Soviet information). After the war, construction work was resumed but not completed before 1947. The Spring of 1950 was indicated as target date set for completion. The state of construction work in August 1949 was:

a. Retaining dam: 180 meters long, bottom width 12 meters, crest width 9 meters. The dam was 80 percent completed. It was made of pebbles and cement, the proportion of ingredients ranging from 1:6 to 1:4 and, in some spots, even to 1:2. The dam was about 24 meters high. However, it was planned to raise it ☐ estimated ☐ total height would be 27 meters. The crest width will be 7.5 meters. The surface of the dam will allegedly be covered with a concrete layer of 1.8 meters. The dam is straight lined and connects two hills. Round apertures, 90 cm in diameter, which can be opened by iron slides were built-in on three levels.

b. Turbine house: 45 x 18 meters, under construction, located immediately east of the northern end of the retaining dam. The turbine house and the foundations of three turbines were completed, the foundation of the fourth turbine was planned. Limestone and cement were in the construction. Two new American turbines had been installed since the summer of 1949. The third was to be installed in October, the fourth in early 1950. The building was not yet furnished with any other machines or installations.

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remember the name of the pipes. [redacted] the whole 25X1 plant to be very primitive as, e.g. the iron slides opening the locks were to be operated by large winches with iron chains. Electric operation of the locks was projected.

a. The storage basin: Upstream of the dam wall, about 4 km to 4.8 km long, 180 meters wide on the dam-side and 85 meters at its western end. The Tura River is 18 meters wide and 1.8 meters deep at normal water level, not regulated and unnavigable.

1. [redacted] the plant might be completed on the target date - Spring of 1950.

3. Work force: About 45 Soviets and 300 PWs engaged in constructing the plant.

4. [redacted]

[redacted] Comment:

[redacted] 25X1
[redacted] 25X1
[redacted] two turbines were ready for installation in June 1949. The capacity of each of these turbines was [redacted] 25X1
[redacted] 4,000 kW (3).

b. The construction of a new retaining dam and power plant on the Tura River, southwest of Verkhov'ye, evident from previous information is confirmed by this report. As from a previous report, it results from this report also that the dam had not been completed in August 1949. According to other reports, the dam was completed in April 1949. The dimensions indicated in this report conform to those given in a previous report so the data may be correct. ILLEGIB

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